

Date:

July 15, 2025

To:

Kenneth C. Morgan, P.E., Director

David Poirier, Acting Deputy Director

From:

Subject:

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Bid Recommendation – Turkey Creek Pump Station Rehabilitation

1. PROJECT NUMBER(S):

80002523

2. CONTRACT NUMBER:

9849

3. PROJECT DESCRIPTION:

The purpose of the project is to find all the assets within the pump station that need repair or replacement and determine whether the current capacity of the station is enough for future demand. This project is seeking to improve and rehabilitate the entire pump station, which includes pumps, piping, valves, electrical systems, and building interior (safety).

4. SOURCE OF FUNDS:

TBD

5. **MBE/WBE GOALS:** 14% MBE / 14% WBE

6. PROPOSALS RECEIVED:

Black & Veatch

Burns & McDonnell

CDM Smith

Lion CSG

Veenstra & Kimm

7. DESIGN PROFESSIONAL SERVICES SELECTION COMMITTEE:

- 8. Kenneth Morgan, Water Services Director
- 9. Eric Bunch, Councilman District #4
- 10. Kelly Postlewait, Assistant City Manager

11. Negotiated Scope and Fee

Maximum Design Professional Amount	\$3,673,700.00
+Optional Services	\$0.00
Grand Total	\$3,673,700.00
Scope	See Exhibit B

RECOMMENDATIONS:

I recommend the City move forward and award Contract 9849 with CDM Smith for a total sum of \$3,673,700.00.

Approved	Docusigned by: Blake Anderson 26145A5B61E84A6	7/16/2025
	Blake Anderson, P.E., Facilities and Plants	Date
	Engineering Division Manager	
	DocuSigned by:	
Approved	CDA8BEE0007B4B0	7/17/2025
Approved:		., 1, 2025
Approved:	David Poirier, P.E., Acting Deputy Director	Date
Approved:		

cc: David Elge, Project Manager
Delois Moore, Procurement Manager
Nicholas Crafton, Finance Manager
Robbi Jackson, Budget Analyst
Contract File No. 9849

DESIGN PROFESSIONAL SELECTION Turkey Creek PS Rehabilitation

80002523/9849

Councilman Eric Bunch, City Manager's Office Kelly Postlewait, Water Services Director Ken Morgan

Date: October, 17 2024

Project	Selected Consultant	
Turkey Creek PS Rehabilitation	COM	
	Alternate Consultant	
Project Number/ Contract Number	Black + Vextch	
80002523/ 9849	Second Alternate Consultant	
	Lion	
	~ 10*(

Eric Bunch, City Councilmember, 4th District

Kelly Postlewait, MS, Esq., Assistant City Manager

Kenneth Morgan, P.E., Director of Water Services

Turkey Creek Rehabilitation				
Project No. 80002523 / Contract No. 9849				

Prime Firms	Black & Veatch	Burns & McDonnell	45000 000		
Date RFP/Q Recieved	8/6/2024	8/1/2024	CDM Smith	Lion CSG	Veenstra & Kimm
Addenda (2 total)	N/A		8/6/2024	7/23/2024	8/8/2024
	*Environmental Advisors and Engineers - Architecture	N/A •Environmental Advisors and Engineers - Architecture	N/A	N/A	N/A
TEAM	Innovative Integrity in Design - Structural Design *Custom Engineering - Electrical, HVAC and Plumbing *Trekk Design Group - Civil / Utility Survey McCurdy Engineers - PS Design	Dubois Consultants - Structural design, Site and Civil *Custom Engineering - Mechanical and Electrical *Trekk Design Group - Utility Survey / Civil KMB Engineering - Electrical and Controls	*Trekk Design Group - Civil / Utility Survey Wellner Architects & Engineers - Architecture and Consulting Services *Parson and Associates - Community Outreach *Kansas City Testing and Engineering - Geotechnical Engineering *Custom Engineering - Mechanical, Electrical and Plumbing *Environmental Advisors and Engineers - Architecture *She Digs It - Utility Contractor *KNB Engineering - Electrical and Controls	-Trekk Design Group - Civil / Utility Survey -Taliaferro & Browne - Structural Engineering -Premier Engineering - Mechanical -Brown & Caldwell - Mechanical Design -EDCS - Electrical and Controls	*Taliaferro & Browne - Structural Engineering *Environmental Advisors & Engineers - Architectural En
PM	Jim Winger, PE	Deron Huck, PE, PMP, ENV SP	G 1 G 1 PF PF		
	Princeton Booster pump station capacity expansion - City Of	*East Bottoms Pump Station Rehabilitation and Expansion Study - KC	Sarah Stewart, PE, PMP	Nicole Young, PE	Mike Schoup, PE
Experience	Irving, TX	Water Citico Wastewater Pump Station Reliability Improvements and Force Main Rehab - City of Chattanoga, TN Wichita Northwest Water Facility - City of Wichita, KS Parano Street Pump Station Rehabilitation - St. Joseph, MO Dykes Branch Pump Station - Frairie, KS MMU North Street Pump Station - Marshall, MO North Headworks Pump Station - Atchison, KS Topeka Layne Pump Station - Atchison, KS Cedar Lake Lift Station - Olathe, KS Winnebago Lift Station - Little Blue Valley Sewer District Plump Station fields and Forcemain - Lawrence, KS Plump station fields and Forcemain - Lawrence, KS Pump station of Improvements and I/I Investigation - Unified Government of Wyandotte Count	-Momoe Steet CSO Lift Station Design & Implementation Assistance - City of Omaba, NB of Omaba, NB - Spring-wells High & Low Lift Station Pump Improvements - Great Lakes Water Authority - Jim Miller Pump Station Improvements - Dallas Water Utilities, TX - Plant 2 Final Design - City of Wichita, KS - Scada Programming - City of Wichita, KS - Scada Programming - City of Wichita, KS - Birmingham WWTP Headworks CPS - KC Water - Private I/R Reduction Phase 5 - KC Water - Mill Creek Influent Pump Station Expansion - Johnson County Wastewater - 37th & Notno Green Infrastructure and Sewer Separation Preliminary Engineering - KC Water - Widdle Basin WWTP Pacifity Plan - Johnson County Wastewater - Outfall 0.54 Amendment 2 - KC Water - Wolffell OS4 Amendment 2 - KC Water - Wolffell Station Sewer Separation Preliminary Engineering - KC Water - Wolffell Investigation City-Wide Sewer Infrastructure within Waterways Renewal 3 - KC Water - Wide County Sewer Disposit City-Wide Sewer Infrastructure within Waterways Renewal 3 - KC Water - Wide County Sewer Disposit City-Wide Sewer Infrastructure within Waterways Renewal 3 - KC Water - Wide County Sewer Disposit City-Wide Sewer Infrastructure within Waterways Renewal 3 - KC Water - Wide County Sewer Disposit City-Wide Sewer Infrastructure within Waterways Renewal 3 - KC Water - Wide County Sewer Disposit City-Wide Sewer Infrastructure within Waterways Renewal 3 - KC Water - Wide County Sewer Disposit City-Wide Sewer Infrastructure within Waterways Renewal 3 - KC Water - Wide County Sewer - Wide County Sewer - Wide County Sewer - Wide Sewer - Wide County Sewer - Wide Co	-Arsenal Pump Station - City of St.Louis -Valkinis Creek Pump Station - City of St.Louis -Creve Coeur Creek Pump Station and Force Main - Metropolitan St.Louis -Sewer District -Multiple Pump Station Designs - City of Jefferson -Lemay Pump Station I & 2 - Metropolitan St.Louis Sewer District -River House Pump Addition & improvements - East St.Louis Water	-Bedford Pump Station Evaluation - North Kansas City MO -Northwest Booster Station - Ankeny, Iowa -Well No. 22 Improvements - Waterloo Waterworks, Iowa -Well No. 14 Improvements - Waterloo Waterworks, Iowa -Well No. 16 Improvements - Waterloo Waterworks, Iowa -Vperations Center Stormwater Pump Station - Des Moines Waterworks -WW Development Area Booster Station - Altoona, Iow -Well 15 + 17 Improvements- Waterloo Waterworks
Number of Employees	Total Employees: 13,000 Total Employees in Kansas City: 2300+	Total Employees: 14,000+ Total Employees in Kansas City: 5600+	Total Employees: 5700 Total Employees in Kansas City: 61		Total Employees: 200+
Project Approach	Project management and admin preparing invoices, managing subconsultants, conduct initiation meeting, and montly progress meetings to create a comprehensive work schedule. Site investigations, Assessments and review of existing info/docs: full facility assessment/control system assessment, infrared thermography of medium voltage electrical gear, create risk scores and recommendations, hazardous material assessment, electrical systems assessment, shazardous material assessment, electrical systems assessment, site utility survey. Lidar Survey, water quality assessment, Spilaser scanning, real-time water quality monitoring assessment, feliability and resiliency assessment, equipment cooling system assessment, Assessment, security system assessmentRepurposing nuused craes-frooms and reservoir transfer pump hydraulic assessment. Conceptual design: evaluation of alternatives and project phasing plan. Sustainability Prelim Design: TCPS hydraulic model, pumping unit capacity & motor control assessment, transient surge modeling, risk management, basis of design memorandum, probable construction costs, cost of service study, quality assurance and project schedule.	of their use life and in need of repair or replacement. 2) Assess whether current station capacity is adequate for future demand and propose alternatives to current pumping systems if future demand cannot be achieved. Currently working with David Elge on condition assessment efforts at TCPS in water master plan.	Revitalizing aging infrastructure: help TCPS operate for another 70 years. Structural condition assessment, maintain code compliance, electrical system analysis, SCADA and control system assessment. Optimize operation: right sizing the facility and improving operations and controls. Station wide dynamic vibration analysis, lower reservoir optimization, pump starter optimization. Maintain TCPS operations: Any improvements at TCPS must maintain service to the southern residents of KC throughout construction. Can the VTP pump directly to upper reservoir allowing for the the lower reservoir to be removed from service. Embrace Sustainability Opportunities: A project of this magnitude creates opportunities to embrace the city's sustainability initiative and to improve TCPS into the future. Stakeholder	Planning: project initiation, project kickoff, engineering report, field review meeting. Modeling: unique factors with modeling turkey creek PS, focusing modeling on operations & pump optimization. Engineering disciplines: conceptual design, sustainability design, preliminary design. Operations, Maintainance, & constructability review. Sustainability: sustainable design, envision credits, diversity and inclusion for sustainable community. Lion CSG will assist KC Water in providing solutions for	pump station has many issues related to process, electrical, mechanical and structural. Vecantra & Kimm will begin the project with a review of current architecture, energy and life safety codes to identify recommended improvements to modernize the building and improve safety for KCMO Water staff. They will take care of peeling paint, moist electrical

Quality Assurance CREO Goals	Black & Veatch will use the QMS process based on the ISO 9001 and will prepare project specific quality management plan. They will be performing technical review at important milestones, they will conduct quality review will senior technical staff, independent reviewers will doubte check all major desicions and criteria, and the subconsultants use similar review methods. Black & Veatch also conducts quality reviews of the subconsultants.	completed to keep track of project approach 3. There will be a third party review 4. Verify compliance with project objectives, review of document accuracy and level of completion 5. The project management team will verify that all goals of the plan are addressed 6. An independent party verifies that all the client needs are met and addressed	CDMs Smith has a 6 part approach to quality assurance. 1. Operability: Planning for ease of O&M begins now and continues through delivery 2. Staffing: An exceptional hand-picked and committed team 3. Documentation: Maintaining comment logs, QC tracking, independent constructability/cost opinion reviews 4. Standards: Apply proven resources, tools, and standardization for the city 5. Communication: weekly design meetings, bi-monthly design process meetings, action item/decision logs for tracking 6. Coordination: Planned cross-discipline reviews, permitting, and integrated 3D modeling	customer focus, leadership, engagement of people, process approach, improvement, evident based decision making and relationship management.	Veenstra & Kimm QA program is based on 2 major clements. 1) Approach to planning and design: Veenstra & Kimm staff members being involved in all aspects of project planning, design and construction. 2) Internal review planning and design documents at 50% and 90% completion levels. The review is by staff not part of the project team. 50% review focuses on the conceptual level and the 90% review focuses on specific details being recommended in the study or design
M/WBE Goals: 14/14	Plans to meet recommeneded goals	Plans to meet recommended goals	Plans to meet recommended goals	Plans to meet recommended goals	Plans to meet recommended goals
Sustainability Project Schedule	Quality of Life: Be aware of noise and security impacts on neighbors for long term improvements and construction. Leadership: make sure ensuring sustainability is a constant consideration from planning to final construction. Resource allocation: design variable frequency drive pumps and renewable energy options. Natural world: green infrastructure and green roof options. Climate: reduced pollutant emissions Preliminary engineering in 9 months	Energy efficiency improvements: assess and upgrade pumps and motors, conduct evaluation of entire pumping system and identify opportunities for reducing energy consumption, implement VFD's to reduce energy costs. Infrastructure & equipment: replace piping to reduce energy costs. Infrastructure & equipment: replace piping to maintain system integrity, update process valves, upgrade lighting and electrical systems. Water conservation: use LIDAR to assesses existing infrastructure, perform hydraulic analysis/CFD modeling, and optimize pump operation schedules. Design and Construction: develop project phasing plan, identify areas for sustainable infrastructure. Safety and Compliance: address safety issues and implement upgrades accordingly. Data driven descision making: update PFD's and P&IDs to reflect latest improvements.		preliminary Design Study with cost benefit analysis focusing on the 10% return rate no greater than 10 years long term operations will focus on	
2.10jeer benedule			1/25 - Prelim Design end of 2025	N/A	9/24 - 9/25
Firm Member Max Possible Time Commitment (%)	Jim Winger, PE - 35% Stuic Campenter, PE - 50% Ieff Henson, PE - 50% Mike Hall, PE - 50% Mike Hall, PE - 50% Mike Hall, PE - 50% Karen Marie Dietze, PE - 25% Jacob Schultze, PE - 60% Kevin McCurdy, PE - 40% James Maher, PE - 25% Dave Romagel - 20% Renee Whaley - 50% Julia Ricks, PE - 20% Julia Ricks, PE - 20% Mulier, PE - 30% Mulier Bass, PE - 25% Adiel Taulneed, PE - 50% Justin Likes, PE - 50% Justin Likes, PE - 50% Justin Likes, PE - 40%	Deron Huck, PE, PMP, ENV SP - 50% Bill Nash, PE, ENV SP - 60% Will Williams, PE, PMP - 80% Jess Borries, PE - 50% Kevin Devoto - 40% Kevin Waddell, PE, DBIA - 25% Ryan Scott, PE - 25% Dana Hinderliter, PE - 25% Andy Sauer, PE, ENV SP - 25%	Sarah Stewart, PE, PMP - 40% Mark Griffin, PE - 50% Chetan Soni, PE - 40% Georgine Grissop, PE, BCEE - 25% Steve Fehinger, PE - 10% Mike Rice, PE, PMP - 15% Lerry Haire, PE - 25% Ali Ashur, PE - 25% Jason Mewes, PE - 75% Jason Mewes, PE - 75% Carl Frizzell, PhD, PE - 40% Stan Plante, PE, BCEE - 25% Greg Sanders, PE - 25% Shamon Ketchum, RA, NCARB, LEED AP - 35% Jefferey Donaldson, PE, PMP - 15% Melody Glasscock, PE, ENV SP - 25% Todd Stalnaker - 10%	Nicole Young, PE - 60% Chris Retzer - 60% Marc Bachetti, PE - 40% Shannon Ryan, ENV SP, Sustainability - 35%	7/(24 - 7/(2)) N/(A